

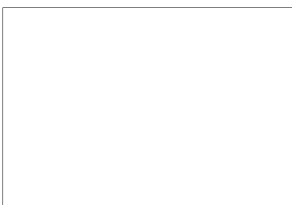
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NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**EQUIPMENT REPLACEMENT AT
SA-5 COMPLEXES, USSR**



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EQUIPMENT REPLACEMENT AT SA-5 COMPLEXES

1. First indications of the replacement of entire sets of launch components were observed on KEYHOLE photography acquired in late 1971. The sets are probably being removed for maintenance/checkout.

complete sets of launch components were observed being replaced by new equipment at five SA-5 complexes--Tallinn B28-5, Leningrad B05-5 and D25-5, Liepaja A07-5, and Kimry A19-5. Figure 1 and the table below show the locations of the five complexes and the chronology of equipment replacement.

2. Replacement of equipment at the five complexes probably includes the entire launch equipment set (SQUARE PAIR radars, launchers, and control electronics). It is likely that SA-5 launch equipment sets are being removed for periodic rear echelon maintenance/checkout. This type maintenance/checkout may be performed at an installation like Kovytkino SAM Depot

Here large numbers of SQUARE PAIR radars, SA-5 launchers, and control electronics are tested in sets before dispersal to deployed complexes. All five complexes are among those which were first to become operational and would logically be among the first to participate in a regular depot service/maintenance program. The replacement equipment appears on photography to be identical to the previously installed equipment rather than modified or upgraded equipment. This increases the likelihood that the observed substitution of equipment is in support of scheduled maintenance.

SA-5 Launcher and Radar Replacement

SAM Complex	Number of Components Exchanged or Removed:
Kimry A19-5	12 launchers, 2 radars & electronics
Leningrad B05-5	12 launchers, 2 radars
Tallinn B28-5	6 launchers, 1 radar
Leningrad D25-5	6 launchers, 1 radar
Liepaja A07-5	6 launchers, 1 radar

*No subsequent coverage to confirm equipment replacement.

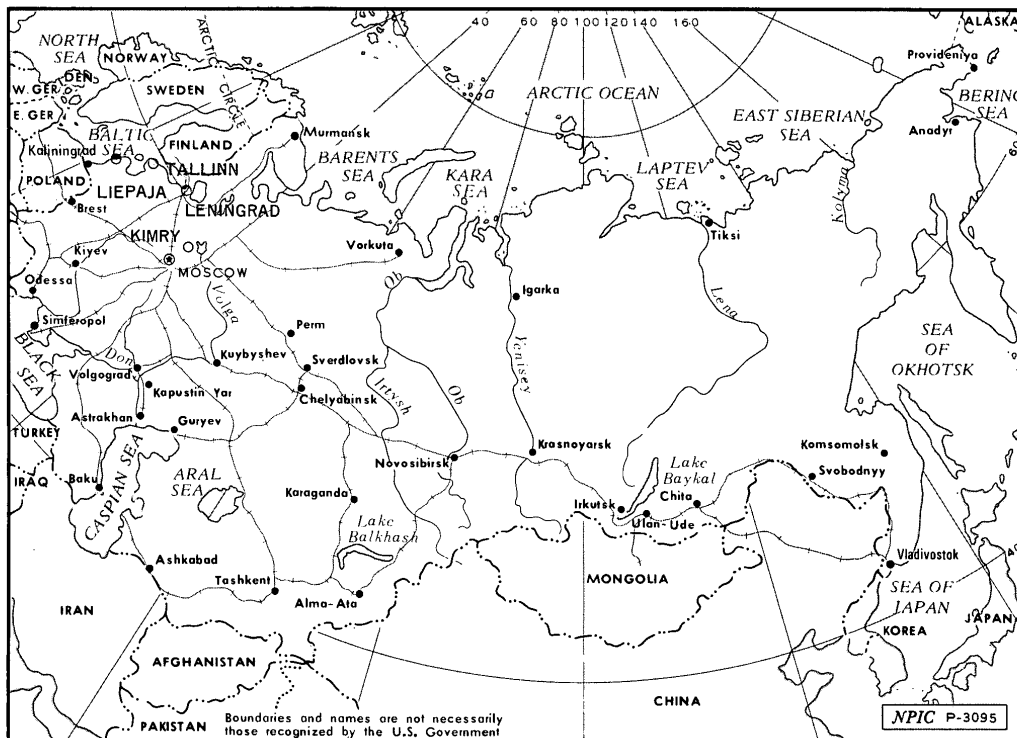


FIGURE 1. LOCATIONS OF SA-5 COMPLEXES WHERE LAUNCH COMPONENTS WERE BEING SUBSTITUTED.

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3. The table above shows that five launch equipment sets have been substituted at three complexes--Kimry, Leningrad B05-5, and Tallinn. At two additional complexes, Leningrad D25-5 and Liepaja, launch components have been removed but it could not be determined if they have been replaced by new equipment.

4. At Kimry SAM complex A19-5 and Leningrad SAM Complex B05-5 the replacement of launchers, radars, and associated electronics was observed in progress. At Kimry (Figures 2 and 3), each launch position at launch sites B and C was occupied by two launchers (Figure 2). Control electronics vans have been removed from their normal positions at site control centers B and C. In addition, components for three SQUARE PAIR radars were observed in the vicinity of radar positions B and C (Figure 3). One SQUARE PAIR was in the transit mode ready to depart the complex. A second SQUARE PAIR was partially assembled at radar position C, and the third SQUARE PAIR was disassembled at position B. Guidance control and electronics vans also had been removed from their usual positions at radar mounds B and C and at the guidance control center.

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5. It is unlikely that the removal of launch components at five SA-5 complexes is an indication of a reduction of strength since all the necessary components had been replaced at three of the five complexes. Furthermore, it is likely that future photography will show that equipment has been returned to the remaining two complexes. If the exchange of launch equipment sets is a periodic requirement, photographic evidence should become more prevalent as future missions are obtained.

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